

Express Mail Label No.

**S. PTO**

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Small Entity)**

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

Docket No.  
14917.1.1

Total Pages in this Submission  
109

**TO THE ASSISTANT COMMISSIONER FOR PATENTS**

**Box Patent Application**  
**Washington, D.C. 20231**

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for invention entitled:

# INTEGRATED MONOLITHIC MICROFABRICATED ELECTROSPRAY AND LIQUID CHROMATHOGRAPHY SYSTEM AND METHOD

and invented by:

**James E. Moon, Gary A. Schultz, Thomas N. Corso, Timothy J. Davis, Gregory J. Galvin, and Stephen Lowes**

**If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:**

☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 09/156,507

Which is a:

☐ Continuation    ☐ Divisional    ☐ Continuation-in-part (CIP) of prior application No.:

Which is a:

☐ Continuation    ☐ Divisional    ☐ Continuation-in-part (CIP) of prior application No.:

**Enclosed are:**

## Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 62 pages and including the following:
- a. ☒ Descriptive Title of the Invention
  - b. ☒ Cross References to Related Applications *(if applicable)*
  - c. ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*
  - d. ☐ Reference to Microfiche Appendix *(if applicable)*
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings *(if drawings filed)*
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure

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## Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☐ Formal      b. ☒ Informal      Number of Sheets 26
4. ☒ Oath or Declaration
- a. ☐ Newly executed (original or copy)      ☐ Unexecuted
- b. ☒ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☒ With Power of Attorney      ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☒ Incorporation By Reference (usable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer Program in Microfiche
7. ☐ Genetic Sequence Submission (if applicable, all must be included)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

## Accompanying Application Parts

8. ☐ Assignment Papers (cover sheet & documents)
9. ☐ 37 CFR 3.73(b) Statement (when there is an assignee)
10. ☐ English Translation Document (if applicable)
11. ☐ Information Disclosure Statement/PTO-1449      ☐ Copies of IDS Citations
12. ☒ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class      ☒ Express Mail (Specify Label No.): EL675131054US

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**Accompanying Application Parts (Continued)**

15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
16. ☒ Small Entity Statement(s) - Specify Number of Statements Submitted: 2
17. ☒ Additional Enclosures *(please identify below)*:

Associate Power of Attorney  
Assignment Documents (2 sets - 8 pages and 6 pages)  
Credit Card Payment Form Authorizing \$355.00

**Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)**

18. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

**Warning**

***An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.***

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**Fee Calculation and Transmittal**

**CLAIMS AS FILED**

| For  | #Filed | #Allowed | #Extra | Rate      | Fee      |
|--|--------|----------|--------|-----------|----------|
| Total Claims   | 1      | - 20 =   | 0      | x \$9.00  | \$0.00   |
| Indep. Claims  | 1      | - 3 =    | 0      | x \$40.00 | \$0.00   |
| Multiple Dependent Claims (check if applicable) <input type="checkbox"/> |        |          |        |           | \$0.00   |
| BASIC FEE  |        |          |        |           | \$355.00 |
| OTHER FEE (specify purpose) _____  |        |          |        |           | \$0.00   |
| TOTAL FILING FEE   |        |          |        |           | \$355.00 |

- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 23-3178 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of \$355.00 as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated: October 27, 2000

  
Signature

David O. Seeley  
Attorney for Applicants  
Registration No. 30,148



022913

PATENT TRADEMARK OFFICE

DOS:cm  
CC:

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10



"Express Mail" Mailing Label No.: EL675131054US

Date of Deposit: October 27, 2000

I hereby certify that the following documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above in an envelope addressed to: Box PATENT APPLICATION, Assistant Commissioner for Patents, Washington, D.C. 20231:

- Divisional Patent Application in the names of James E. Moon, Gary A. Schultz, Thomas N. Corso, Timothy J. Davis; Gregory J. Galvin and Stephen Lowes for INTEGRATED MONOLITHIC MICROFAABRICATED ELECTROSPRAY AND LIQUID CHROMATOGRAPHY SYSTEM AND METHOD (62 pages)
- Informal Drawings (26 pages)
- Copy of the Declaration, Power of Attorney and Petition (2 - 3 pages each)
- Copy of Small Entity Statements (2 - 2 pages each)
- Copy of Assignment Documents (2 - 8 pages and 6 pages)
- Associate Power of Attorney (2 pages)
- Preliminary Amendment
- Transmittal Letter (4 pages)
- Credit Card Payment Form authorizing \$355.00 fee
- Certificate of Express Mail Label No. EL675131054US
- Postcard

Dated this 27th day of October 2000.

Respectfully submitted,

David O. Seeley  
Attorney for Applicant  
Registration No. 30,148



**022913**